IN THE CLAIMS

Please amend claims 1, 10, 18, and 26 as indicated below.

 (Currently Amended) A method of community access control in a Multi-Community Node (MCN), said method comprising:

receiving a request for access to an object;

consulting a community information base (CIB) responsive to said request,

wherein said CIB includes:

a user community set (UCS) for each user of said MCN, wherein for a
given user and associated UCS, a given community is a member of
the UCS if the given user is a member of the given community;

an application community set (ACS) for each application on said MCN,
wherein for a given application and associated ACS, a given
community is a member of the ACS if the given application runs
on behalf of a user in the given community; and

an object community set (OCS) for each object residing within said MCN_a

wherein each OCS is included in an ACS of a process which

created it;

permitting access to said object in response to detecting:

said request is from a first user; and

a UCS of said-the first user is a superset of an OCS of said object; and denying access to said object in response to detecting:

said request is from the first user; and

a UCS of the first user is not a superset of an OCS of said object;

permitting access to said object in response to detecting:

said request is from a process; and

an ACS of said process is a superset of an OCS of said object; and

denying access to said object in response to detecting:

said request is from said process; and

an ACS of said process is not a superset of an OCS of said object:

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wherein a given OCS comprises a first set of communities, a given UCS is a superset of the given OCS if at least all of the first set of communities are also included in the given UCS, and a given ACS is a superset of the given OCS if at least all of the first set of communities are also included in the given ACS.

- (Original) The method of claim 1, wherein said object is an operating system controlled resource
- (Original) The method of claim 2, wherein said object is selected from the group
 consisting of a file system, a storage volume, a directory, a file, a record, a memory
 region, a queue, a pipe, a socket, a port, or an input/output device.
- (Previously presented) The method of claim 1, wherein an initial owner of said object is a creator of said object.
- (Original) The method of claim 1, further comprising permitting an owner of said object to designate a first user as a new owner of said object, in response to detecting a UCS of said first user is a superset of said OCS.
- 6. (Original) The method of claim 1, further comprising allowing a first process to change said OCS of said object to a subset of said ACS of said first process, in response to detecting an owner of said first process is an owner of said object and said ACS is a superset of said OCS.
- 7. (Canceled).
- 8. (Canceled).
- (Previously presented) The method of claim 1, wherein said CIB further includes a creator and a current owner for each object residing within said MCN.

 $10.\ (Previously\ presented)\ A\ Multi-Community\ Node\ (MCN)\ comprising:$

a community information base (CIB), wherein said CIB includes:

a user community set (UCS) for each user of said MCN, wherein for a
given user and associated UCS, a given community is a member of
the UCS if the given user is a member of the given community.

an application community set (ACS) for each application on said MCN,
wherein for a given application and associated ACS, a given
community is a member of the ACS if the given application runs
on behalf of a user in the given community; and

an object community set (OCS) for each object residing within said MCN₂

wherein each OCS is included in an ACS of a process which

created it;

a processing unit configured to:

receive a request for access to an object;

consult said CIB responsive to said request;

permit access to said object in response to detecting:

said request is from a first user; and

a UCS of said the first user is a superset of an object community set (OCS) of said object;

deny access to said object in response to detecting:

said request is from the first user; and

a UCS of the first user is not a superset of an OCS of said object;

permit access to said object in response to detecting:

said request is from a process; and

an ACS of said process is a superset of said OCS; and

deny access to said object in response to detecting:

said request is from said process; and

an ACS of said process is not a superset of an OCS of said object;

wherein a given OCS comprises a first set of communities, a given UCS is

a superset of the given OCS if at least all of the first set of

communities are also included in the given UCS, and a given ACS is a superset of the given OCS if at least all of the first set of communities are also included in the given ACS.

- 11. (Original) The MCN of claim 10, wherein said object is an operating system controlled resource.
- 12. (Original) The MCN of claim 11, wherein said object is selected from the group consisting of a file system, a storage volume, a directory, a file, a record, a memory region, a queue, a pipe, a socket, a port, or an input/output device.
- (Previously presented) The MCN of claim 10, wherein an initial owner of said object is a creator of said object.
- 14. (Original) The MCN of claim 10, wherein said processing unit is further configured to permit an owner of said object to designate a first user as a new owner of said object, in response to detecting a UCS of said first user is a superset of said OCS.
- 15. (Original) The MCN of claim 10, wherein said processing unit is further configured to allow a first process to change said OCS of said object to a subset of said ACS of said first process, in response to detecting an owner of said first process is an owner of said object and said ACS is a superset of said OCS.
- 16. (Canceled).
- 17. (Previously presented) The MCN of claim 10, wherein said CIB further includes a creator and a current owner for each object residing within said MCN.
- 18. (Currently Amended) A computer system comprising:

a computer network: and

a multi-community node (MCN) coupled to said computer network, wherein said MCN comprises:

a community information base (CIB), wherein said CIB includes:

a user community set (UCS) for each user of said MCN, wherein
for a given user and associated UCS, a given community is
a member of the UCS if the given user is a member of the
given community;

an application community set (ACS) for each application on said MCN, wherein for a given application and associated ACS, a given community is a member of the ACS if the given application runs on behalf of a user in the given community; and

an object community set (OCS) for each object residing within said MCN, wherein each OCS is included in an ACS of a process which created it;

a processing unit configured to:

receive a request for access to an object;

consult said CIB responsive to said request;

permit access to said object in response to detecting:

said request is from a first user; and

a UCS of said-the first user is a superset of an object community set (OCS) of said object;

deny access to said object in response to detecting:

said request is from the first user; and

a UCS of the first user is not a superset of an OCS of said object;

permit access to said object in response to detecting:

said request is from a process; and

an ACS of said process is a superset of said OCS; and

deny access to said object in response to detecting:

said request is from said process; and

an ACS of said process is not a superset of an OCS of said object; wherein a given OCS comprises a first set of communities, a given UCS is a superset of the given OCS if at least all of the first set of communities are also included in the given UCS, and a given ACS is a superset of the given OCS if at least all of the first set of communities are also included in the given ACS.

- 19. (Original) The computer system of claim 18, wherein said object is an operating system controlled resource.
- 20. (Original) The computer system of claim 19, wherein said object is selected from the group consisting of a file system, a storage volume, a directory, a file, a record, a memory region, a queue, a pipe, a socket, a port, or an input/output device.
- 21. (Previously presented) The computer system of claim 18, wherein an initial owner of said object is a creator of said object.
- 22. (Original) The computer system of claim 18, wherein said processing unit is further configured to permit an owner of said object to designate a first user as a new owner of said object, in response to detecting a UCS of said first user is a superset of said OCS.
- 23. (Original) The computer system of claim 18, wherein said processing unit is further configured to allow a first process to change said OCS of said object to a subset of said ACS of said first process, in response to detecting an owner of said first process is an owner of said object and said ACS is a superset of said OCS.
- 24. (Canceled).
- 25. (Previously presented) The computer system of claim 18, wherein said CIB further includes a creator and a current owner for each object residing within said MCN.

26. (Currently Amended) A carrier medium comprising program instructions, wherein said program instructions are executable to:

receive a request for access to an object;

consult a community information base (CIB) responsive to said request, wherein said CIB includes:

a user community set (UCS) for each user of said MCN, wherein for a
given user and associated UCS, a given community is a member of
the UCS if the given user is a member of the given community:

an application community set (ACS) for each application on said MCN,
wherein for a given application and associated ACS, a given
community is a member of the ACS if the given application runs
on behalf of a user in the given community; and

an object community set (OCS) for each object residing within said MCN, wherein each OCS is included in an ACS of a process which created it:

permit access to said object in response to detecting:

said request is from a first user; and

a UCS of said-the first user is a superset of an OCS of said object; and deny access to said object in response to detecting:

said request is from the first user; and

a UCS of the first user is not a superset of an OCS of said object;

permit access to said object in response to detecting:

said request is from a process; and

an ACS of said process is a superset of an OCS of said object; and

deny access to said object in response to detecting:

said request is from said process; and

an ACS of said process is not a superset of an OCS of said object:

- wherein a given OCS comprises a first set of communities, a given UCS is a superset of the given OCS if at least all of the first set of communities are also included in the given UCS, and a given ACS is a superset of the given OCS if at least all of the first set of communities are also included in the given ACS.
- 27. (Original) The carrier medium of claim 26, wherein said object is an operating system controlled resource.
- 28. (Original) The carrier medium of claim 27, wherein said object is selected from the group consisting of a file system, a storage volume, a directory, a file, a record, a memory region, a queue, a pipe, a socket, a port, or an input/output device.
- (Previously presented) The carrier medium of claim 26, wherein an initial owner of said object is a creator of said object.
- 30. (Original) The carrier medium of claim 26, wherein said program instructions are further executable to permit an owner of said object to designate a first user as a new owner of said object, in response to detecting a UCS of said first user is a superset of said OCS.
- 31. (Original) The carrier medium of claim 26, wherein said program instructions are further executable to allow a first process to change said OCS of said object to a subset of said ACS of said first process, in response to detecting an owner of said first process is an owner of said object and said ACS is a superset of said OCS.
- 32. (Canceled).
- 33. (Canceled).
- 34. (Previously presented) The carrier medium of claim 26, wherein said CIB further

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includes a creator and a current owner for each object residing within said MCN.